

**REMARKS**

Claims 1-6 have been cancelled in order that new claims 7-13 can be pursued. Claims 7-13 correspond to Group V, claims 34-40 of the January 5, 1999 Restriction Requirement of the Continuing Prosecution Application U.S. Serial No. 08/560,809.



**INFORMATION DISCLOSURE STATEMENT**

In accordance with the provisions of 37 C.F.R. §1.56, §1.97 and §1.98, Applicants wish to bring the following references, References AAA, AA-AG, BA-BZ, CA-CZ, DA-DZ, EA-EZ, FA-FZ, GA-GZ, HA-HZ, IA-IZ, JA-JC, JE, and KA-KD cited on the attached PTO-1449 Form to the attention of the Examiner.

Copies of References BA-BB were previously cited by the Examiner in corresponding U.S. Application Serial No. 08/126,174 filed September 23, 1993.

Copies of References AAA, AA-AF, BC-IZ were previously submitted by Applicant in corresponding U.S. Application Serial No. 08/126,174 filed September 23, 1993.

Copies of Reference AG and KB-KD was previously cited by the Examiner in corresponding U.S. Application Serial No. 08/560,809 filed November 21, 1995.

Copies of References JA-JC, JE and KA were previously submitted by Applicant in corresponding U.S. Application Serial No. 08/560,809, filed November 21, 1995.

Applicants respectfully submit that since the present Application claims priority under 35 U.S.C. §120 to Application Serial No. 08/126,174, in accordance with 37 CFR §1.97(d), a copy of the above-identified References need not be provided. However, in the event that the Examiner requires an additional copy of any of the cited References AAA, AA-AG, BA-BZ, CA-CZ, DA-DZ, EA-EZ, FA-FZ, GA-GZ, HA-HZ, IA-IZ, JA-JC, JE and KA-KD, the Examiner is requested to contact the undersigned who will provide the requested copies.

It is respectfully submitted that each of the documents shown on PTO-1449  
be made of record in this Application.

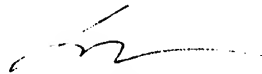
Early examination and allowance of the present Application is respectfully  
requested.

Respectfully submitted,

NEW ENGLAND BIOLABS, INC.

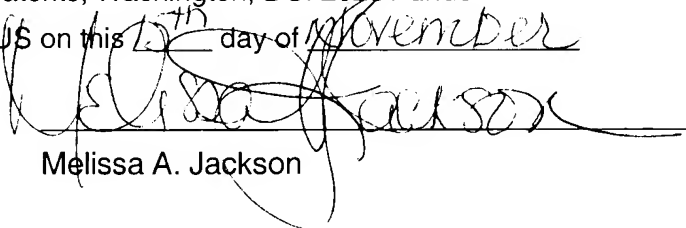
Date: 11/14/01

Customer No.: 28986

  
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**CERTIFICATE OF MAILING**

I hereby certify that this PRELIMINARY AMENDMENT AND INFORMATION  
DISCLOSURE STATEMENT AND PTO-1449 FORM are being deposited with the  
United States Postal Service as first class mail in an envelope addressed to: Box New  
Application, Assistant Commissioner for Patents, Washington, DC. 20231 under  
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2001.

  
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Melissa A. Jackson

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FORM PTO-1449		ATTORNEY NO. NEB-20C2CD3	SERIAL NO.
INFORMATION DISCLOSURE STATEMENT		APPLICANTS: Wong-Madden, et al.	
		FILING DATE:	GROUP NO.
	BA	Hayward, J. Appl. Bacteriol. 43:407-412 (1977)	
	BB	Glover, "Gene Cloning. The Mechanics of DNA Manipulation" 1984 by Chapman and Hall (London) pages 1-20	
	BC	Kawasaki, et al., J. of Biological Chemistry 252:6536-6543 (1977)	
	BD	Mizuochi, et al., J. of Biological Chemistry 253:7404-7409 (1978)	
	BE	Sasaki, et al., J. of Biological Chemistry, 262:12059-12076 (1987)	
	BF	Kagawa, et al., J. of Biological Chemistry, 263:17508-17515 (1988)	
	BG	Parekh, et al. Biochemistry, 28:7644-7662 (1989)	
	BH	Parekh, et al., Biochemistry, 28:7670-7679 (1989)	
	BI	Wittwer, et al., Biochemistry 28:7662-7669 (1989)	
	BJ	Barton, et al., Proc. Natl. Acad. Sci. 87:1913-1916 (1990)	
	BK	Parekh, et al., European J. of Biochemistry, 203:135-141 (1992)	
	BL	Rice, et al., Analytical Biochemistry, 206:278-287 (1992)	
	BM	Lund, et al., Human Antibody Hybridomas, 4:20-25 (1993)	
	BN	Galili, et al., Proc. Natl. Acad. Sci., 84:1369-1373 (1987)	

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	BO	Galili, et al., J. of Biological Chemistry 263:17755-17762 (1988)	
	BP	Lund, et al., Human Antibody Hybridomas, 4:20-25 (1993)	
	BQ	Dube, et al., J. Biological Chemistry, 33:17516-17521 (1988)	
	BR	Moremen, et al. J. of Biological Chemistry, 266:16876-16885 (1991)	
	BS	Sheares, et al., Proc. Natl. Acad. Sci., USA, 83:1993-1997 (1986)	
	BT	Edge, et al., Nature, 358:693-694 (1992)	
	BU	Landers, et al., BioTechniques, 14:98-108 (1993)	
	BV	AAAS 1993 Meeting (Boston, MA) Seminar "Concurrent Discussion Carbohydrate Structure Analysis & Glycobiology	
	BW	Edge, et al., Proc. Natl. Acad. Sci., 89:6338-6342 (1992)	
	BX	Jackson, Biochemistry Journal, 270:705-713 (1990)	
	BY	Turnbull and Gallagher, Biochem. J. 251:597-608 (1988)	
	BZ	Parekh, et al., The EMBO Journal, 6:1233-1244 (1987)	
	CA	Wang, et al., Analytical Biochemistry, 141:366-381 (1984)	
	CB	Prakash and Vijay, Analytical Biochemistry, 128:41-46 (1983)	

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		APPLICANTS: Wong-Madden, et al.	
		FILING DATE:	GROUP NO.
	CC	Baenziger and Maynard, J. of Biological Chemistry, 255:4607-4613 (1980)	
	CD	Wang, et al., Analytic Biochemistry, 141:366-381 (1984)	
	CE	Reinhold, et al., J. Carbohydrate Chemistry, 2:1-18 (1983)	
	CF	Wells, et al., Analytical Biochemistry, 110:397-406 (1981)	
	CG	Tronsmo and Harman, Analytical Biochemistry, 208:74-79 (1993)	
	CH	Young, et al., Biochemistry, 10:3457-3460 (1971)	
	CI	Yamashita, et al., Methods in Enzymology, 83:105-126 (1982)	
	CJ	Yamashita, et al., J. of Biological Chemistry, 255:5635-5642 (1980)	
	CK	Fukuda, Biochemistry, 24:2154-2163 (1985)	
	CL	Turco, et al., Analytical Biochemistry, 118:278-283 (1981)	
	CM	Camirand, et al., J. of Biological Chemistry, 266:15120-15127 (1991)	
	CN	Umemoto, et al., J. Biol. Chem. 252:8609-8614 (1977)	
	CO	Bhavanandan, et al., Biochemical and Biophysical Research Communications, 70:738-745 (1976)	
	CP	Glasgow, et al., J. Biol. Chem. 252:8615-8623 (1977)	
	CQ	Vliegenthart, et al., Advances in Carbohydrate Chemistry And Biochemistry, 41:209-375 (1983)	

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	CR	Flowers and Sharon, Adv. Enzymol., 48:29-95 (1979)	
	CS	Kobata, Department of Biochemistry, The Institute of Medical Science. The University of Tokyo, Japan, "The Carbohydrates of Glycoproteins",	
		pages 87-161 (1982)	
	CT	Dell, Advances in Carbohydrate Chemistry and Biochemistry 45:19-72 (1987)	
	CJ	Conzelmann and Sanhoff, Adv. Enzymol. 60:89-216 (1987)	
	CV	Rademacher, et al., Ann. Rev. Biochem., 57:785-838 (1988)	
	CW	Dahms, et al., J. of Biological Chemistry, 264:12115-12118 (1989)	
	CX	Paulson, TIBS, 14:272-276 (1989)	
	CY	Spellman, Anal. Chem., 62:1714-1722 (1990)	
	CZ	Lee, et al., Applied Biochemistry and Biotechnology, 23:53-80 (1990)	
	DA	Cumming, Glycobiology, 1:115-130 (1991)	
	DB	Ichikawa, et al., Analytical Biochemistry, 202:215-238 (1992)	
	DC	Geisow, Bio/Technology, 10:277-280 (1992)	
	DD	Edge, et al., Nature, 358:695 (1992)	

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INFORMATION DISCLOSURE STATEMENT		APPLICANTS: Wong-Madden, et al.	
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	DE	Edge, et al., Nature, 358:693-694 (1992)	
	DF	Stanley, Glycobiology, 2:99-107 (1992)	
	DG	Varki, et al., Glycobiology, 3:97-130 (1993)	
	DH	Harris and Spellman, Glycobiology, 3:219-224 (1993)	
	DI	Spellman, Anal. Chemi. 62:1714-1722 (1990)	
	DJ	Kobata, Anal. Chem. 100:1-14 (1979)	
	DK	Schatzle, et al., J. of Biological Chemistry 267:4000-4007 (1992)	
	DL	Daniel, et al., Glycobiology, 2:327-336 (1992)	
	DM	DeGasperi, et al., J. of Biological Chemistry, 267:9706-9712 (1992)	
	DN	Tulsiani, et al., J. of Biological Chemistry, 257:3660-3668 (1982)	
	DO	Opheim, et al., J. of Biological Chemistry, 253:1017-1023 (1978)	
	DP	Tulsiani, et al., Archives of Biochemistry and Biophysics, 267:60-68 (1988)	
	DQ	Phillips, et al., Biochemistry J., 153:579-587 (1976)	
	DR	Tulsiani, et al., J. of Cell Biology, 109:1257-1267 (1989)	
	DS	Yamamoto, et al., Agr. Biol. Chem. 39:1981-1988 (1975)	



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		FILING DATE:	GROUP NO.
	DT	Yamamoto, et al., J. Biochem. 91:1971-1979 (1982)	
	DU	Tulsiani, et al., J. of Biological Chemistry, 260:13081-13087 (1985)	
	DV	Bonay, Eur. J. Biochem. 197-229-238 (1991)	
	DW	Tabas, et al., J. of Biological Chemistry, 254:11655-11663 (1979)	
	DX	Tulsiani, et al., J. of Biological Chemistry, 252:3227-3233 (1977)	
	DY	Kaushal, et al., Biochemistry, 29:2168-2176 (1990)	
	DZ	Shoup, et al., J. of Biological Chemistry, 251:3845-3852 (1976)	
	EA	Snaith, et al., Biochem. J. 117:129-137 (1970)	
	EB	Bischoff, et al., J. of Biological Chemistry, 258:7907-7910 (1983)	
	EC	Yamashita, et al., Biochemical and Biophysical Research Communications 96:1335-1342 (1980)	
	ED	Kobata, et al., Methods in Enzymology, 138:779-785 (1987)	
	EE	Swaminathan, et al., J. of Biological Chemistry, 247:1775-1779 (1972)	
	EF	Matta, et al., J. of Biological Chemistry, 247:1780-1787 (1972)	
	EG	Okumura, et al., Methods Enzym. 28:792-796 (1972)	
	EH	Ichishima, et al., Biochimica et Biophysica Acta 658:45-53 (1981)	

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		APPLICANTS: Wong-Madden, et al.	
		FILING DATE:	GROUP NO.
	B	Yu-Teh, et al., J. of Biological Chemistry, 242:5474-5480 (1967)	
	EJ	Jones and Ballou, J. of Biological Chemistry 244:1043-1051 (1969)	
	EK	Sukeno, et al., Methods Enzymol., 28:777-782 (1972)	
	EL	Okumura, J. Biochem. 73:131-138 (1973)	
	EM	Shigeta, et al., J. Biochem., 84:1827-1832 (1983)	
	EN	Paus and Christensen, Eur. J. Biochem., 25:308-314 (1972)	
	EO	Saita, et al. J. Biochem., 70P:827-833 (1971)	
	EP	Tulsiani, et al., Biochem. J. 290:427-436 (1993)	
	EQ	Every and Ashworth, Biochem. J. 133:37-47 (1973)	
	ER	Snaith and Levvy, Biochem. J. 114:25-33 (1969)	
	ES	Ziegler and Trimble, Glycobiology 1:605-614 (1991)	
	ET	Sugahara, et al., Methods Enzym. 28B:769-772 (1992)	
	EU	McCabe, et al. Biochimica et Biophysica Acta 1077:133-140 (1991)	
	EV	Sone, et al., J. Biochem., 83:1135-1144 (1978)	
	EW	Bouguélet, et al., Biochimica et Biophysica Acta 522:521-530 (1978)	

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		APPLICANTS: Wong-Madden, et al.	
		FILING DATE:	GROUP NO.
	EX	Sopher, et al., Biochem. J. 289:343-347 (1993)	
	EY	Toyoshima, et al. Biochemical and Biophysical Research Communications 51:945-950 (1973)	
	EZ	Li and Lee, J. of Biological Chemistry, 247:3677-3683 (1972)	
	FA	Aminoff and Furukawa, J. of Biological Chemistry, 245:1659-1669 (1970)	
	FB	Carlsen and Pierce, J. of Biological Chemistry, 247:23-32 (1972)	
	FC	Opheim and Touster, J. of Biological Chemistry 252:739-743 (1977)	
	FD	DiCioccio, et al., J. of Biological Chemistry 257:714-718 (1982)	
	FE	Scudder, et al., J. of Biological Chemistry 265:16472-16477 (1990)	
	FF	Sano, et al. J. of Biological Chemistry 267:1522-1527 (1992)	
	FG	DeGasperi, et al., J. of Biological Chemistry, 267:9706-9712 (1992)	
	FH	Butters, et al. Biochem. Journal, 279:189-195 (1991)	
	FI	"alpha1, 2-L-Fucosidase From Arthrobacter oxidans F1" Takara Biochemicals, Takara Shuzo Co., Ltd.	
	FJ	Yoshima, et al., Arch. of Biochem. and Biophysics 194:394-398 (1979)	
	FK	Bahl, J. of Biological Chemistry 245:299-304 (1970)	
	FL	Ogata-Arakawa, et al., Arch. of Biochem. and Biophy. 181:353-358 (1977)	

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INFORMATION DISCLOSURE STATEMENT		APPLICANTS: Wong-Madden, et al.	
		FILING DATE:	GROUP NO.
	RM	Furukawa and Aminoff, Fed. Proc. 28:606 (1969)	
	FN	Kochibe, J. Biochem. 74:1141-1149 (1973)	
	FO	Suzuki, et al., J. of Biological Chemistry 245:781-786 (1970)	
	FP	Distler and Jourdian, J. of Biological Chemistry, 248:6772-6780 (1973)	
	FQ	Haibach, et al. Biochem. and Biophysical Research Communications 181:1564-1571 (1991)	
	FR	Dean and Sweeley, J. of Biological Chemistry, 254:9994-10000 (1979)	
	FS	Dey, Eur. J. Biochem., 140:385-390 (1984)	
	FT	Suzuki, et al., J. of Biological Chemistry 245:781-786 (1970)	
	FU	Williams, et al., Biochem. J. 175:1069-1077 (1978)	
	FV	Gherardini, et al., J. of Bacteriology, 161:500-506 (1985)	
	FW	Itoh, et al., Agric. Biol. Chem., 43:1499-1504 (1979)	
	FX	Li and Shetlar, Arch. of Biochem. and Bioph. 108:523-530 (1964)	
	FY	Dey and Pridham, Biochem. J. 113:49-55 (1969)	
	FZ	Yates, et al., FEBS Letters, 60:281-285 (1975)	
	GA	Zapater, et al. Preparative Biochemistry, 20:263-296 (1990)	

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		APPLICANTS: Wong-Madden, et al.	
		FILING DATE:	GROUP NO.
	GB	Shah and Parekh, Indian J. of Biochem and Biophy. 27:103-107 (1990)	
	GC	Li and Li, Methods Enzymol. 28:714-720 (1972)	
	GD	Malhotra and Dey, Biochem. J. 103:508-513 (1967)	
	GE	Talbot and Sygusch, Appl. and Environ. Microbiology, 56:3505-3510 (1990)	
	GF	Oishi, et al., Agr. Biol. Chem., 36:578-587 (1972)	
	GG	Kaji, et al., Agr. Biol. Chem. 36:1335-1342 (1972)	
	GH	Petek, et al., European J. Biochem. 8:395-402 (1969)	
	GI	Distler, et al., J. Biol. Chem., 248:6772-6780 (1973)	
	GJ	Dey, et al., Biochimica et Biophysica Acta, 370:269-275 (1974)	
	GK	Arakawa, et al., J. Biochem., 75:707-714 (1974)	
	GL	Tanaka, et al., J. Biochem., 77:241-247 (1975)	
	GM	Li, et al., J. Bio. Chem., 250:6786-6791 (1975)	
	GN	Akasaki, et al., J. Biochem. 80:1195-1200 (1976)	
	GO	Brandao, et al., J. Dairy Sci., 70:1331-1337 (1987)	
	GP	Shigeta, et al., J. Biochem., 110:136-140 (1991)	

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		APPLICANTS: Wong-Madden, et al.	
		FILING DATE:	GROUP NO.
	QQ	Product Literature, "Tools For Glycobiology, Beta-Galactosidase, Catalog No. X-5008," Oxford GlycoSystems, Abingdon, England (1992)	
	QR	Priyolkar, et al., Arch. Microbiol., 151:49-53 (1989)	
	QS	Paulson, et al., J. Biol. Chem., 253:5617-5624 (1978)	
	GT	Frost, et al., Biochem. 175:181-188 (1978)	
	QU	Hubert, et al., J. Biochem., 213:275-278 (1983)	
	GV	Johnson, et al., Arch. Biochem. Biophys. 138:408-411 (1970)	
	GW	Pisani, et al., Eur. J. Biochem., 187:321-328 (1990)	
	GX	Lo, et al., J. Biol. Chem. 254:6710-6715 (1979)	
	GY	Kiyohara, et al., J. Biochem., 80:9-17 (1976)	
	GZ	John, et al., Hemicellulose, date unknown.	
	HA	Matsuo, et al., Agric. Biol. Chem., 51:2367-2379 (1987)	
	HB	Kitpreechavanich, et al., Agric. Biol. Chem., 50:1703-1711 (1986)	
	HC	Shao, et al. J. Bacteriol. 174:5848-5853 (1992)	
	HD	Dobberstein, et al., Appl. Microbiol. Biotechnol. 35:210-215 (1991)	
	HE	Bachmann, et al., J. Gen. Microbiol. 135:293-299 (1989)	

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		FILING DATE:	GROUP NO.
	HF	Buttner, et al., J. Basic Microbiology, 32:159:166 (1992)	
	HG	John, et al., Can. J. Biochem., 57:125-134 (1978)	
	HH	Yamashita, et al., Biochem. & Biophys. Res. Comm. 100:226-232 (1981)	
	HI	Phyzackerley, et al. Biochemica et Biophysica Acta 362:129-135 (1974)	
	HJ	Mitchell, et al., Phytochemistry, 15:1869-1871 (1976)	
	HK	Ortiz, et al., Biochimica et Biophys. Acta 289:174-186 (1972)	
	HL	Agrawal, et al. J. Biol. Chem., 243:103-111 (1968)	
	HM	Bahl, et al., J. Biol. Chem. 244:2970-2978 (1969)	
	HN	Berg, et al., App. & Environ. Micro. 40:40-47 (1980)	
	HO	Findlay, et al., Biochem. J. 77:170-175 (1960)	
	HP	Kimura, Biochimica et Biophysica Acta 446:399-406 (1976)	
	HQ	St. Leger, et al., J. Inveterbrate Pathology, 58:415-426 (1991)	
	HR	Robinson, et al. Biochem. J. 107:321-327 (1968)	
	HS	Legler, et al., Biochimica et Biophysica Acta, 1080:89-95 (1991)	
	HT	Mega, et al., J. Biochem. 68:109-117 (1970)	

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	HU	Ceccarini, et al., Eur. J. Biochem., 132:469-476 (1983)	
	HV	Bedi, et al., Arch. Biochem. & Biophys. 233:237-250 (1984)	
	HW	Verpoorte, Biochemistry, 13:793-799 (1974)	
	HX	Frohwein, et al., Biochemistry 6:2775-2782 (1967)	
	HY	Verpoorte, J. Biol. Chem., 347:4787-4793 (1972)	
	HZ	Bedino, et al., "Comparative Study of Glycosidases From The Thermophilic Fungus Thermoascus Aurantiacus Miehe. Purification And Characterization of Intracellular Beta-Glucosidase" (Need Citation)	
	IA	Imai, J. Biochem., 98:1405-1416 (1985)	
	IB	Deshpande, et al., Eur. J. Biochem., 90:191-198 (1978)	
	IC	Cruzet, et al., Biochem & Biophys. Res. Comm. 90:537:546 (1979)	
	ID	Yague, et al., Eur. J. Biochem., 175:627-632 (1988)	
	E	Shewale, et al., Arch. Biochem. & Biophys. 207:185-196 (1981)	
	IF	Hosel, et al., Hoppe-Seyler's Z. Physiol. Chem. Bd. 358:959-966 (1977)	
	IG	Hidalgo, et al., Biotech. & App. Biochem. 15:185-191 (1992)	
	IH	Sengupta, et al., Biochimica et Biophysica Acta, 1076:215-220 (1991)	



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	II	Chirico, et al., Eur. J. Biochem., 165:333-341 (1987)	
	IJ	Painbeni, et al., J. Bacteriology, 17:3087-3091 (1992)	
	IK	Freer, Arch. Biochem. Biophys. 243:515-522 (1985)	
	IL	Vimr, et al., J. of Bacteriology, 170:1495-1504 (1988)	
	IM	Lee and Forsberg, Appl. and Environ. Micro., 54:651-654 (1987)	
	IN	Panbangred, et al. Eur. J. Biochem., 138:267-273 (1984)	
	IO	Bachmann and McCarthy, J. of Gen. Micro., 135:293-299 (1989)	
	IP	Shao and Wiegel, J. Bacteriology 174:5848-5853 (1992)	
	IQ	Buttner and Bode, J. Basic. Microbiol. 32:159-166 (1992)	
	R	Dobberstein and Emeis, Appl. Micro. Biotechnol., 35:210-215 (1991)	
	IS	Garcia-Campayo, et al., Carbohydrate Research, 242:229-245 (1993)	
	IT	Kerstens-Hilderson, et al., Eur. J. Biochem., 7:434:441 (1969)	
	IU	John, et al., Can. J. Biochem., 57:125-134 (1979)	
	IV	John and Schmidt, Methods in Enzymology, 160:662-671 (1988)	
	IW	Matsuo and Yasui, Methods in Enzymology 160:684-695 (1988)	

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	IX	Matsuo and Win, Agric. Biol. Chem., 51:2367-2379 (1987)	
	IV	Copa-Patino and Broda, Carbohydrate Research, 253:265-275 (1994)	
	IZ	Tezuka, et al., Analytical Biochemistry, 211:205-209 (1993)	
	JA	Su, et al., J. of Biotechnology 9:139-152 (1989)	
	JB	Ueno, et al., Biochimica et Biophysica Acta 1074:79-84 (1991)	
	JC	Wong-Madden, et al., Glycobiology 5:19-28 (1995)	
	JE	Ghosh, et al., Analytical Biochemistry, 196:252-261 (1991)	
	KA	Marin & Marshall, Journal of Food Protection, 46(8):676-680 (1983)	
	KB	Gough, Gene, 89:53-59 (1990)	
	KC	Sutherland and MacDonald, J. of Microbiological Methods 6:27-31 (1986)	
	KD	Frank and Somkuti, Applied and Environmental Microbiology 38:554-556 (1979)	